Application No. 10/075,017 Attorney Docket No. P-009-RC2 Customer No. 27038 Page 2 of 9

## II. LISTING OF CLAIMS

1-63. (Canceled)

64. (Currently Amended) A method of preparing a library of compounds of the formula:

wherein

each L is independently a ligand which binds to a cell membrane transporter; and X is a linker of the formula:

$$-X'-Z-(Y'-Z)_m-Y''-Z-X'-$$

wherein

m is an integer of from 0 to 20;

X' at each separate occurrence is selected from the group consisting of -O-, -S-, -NH-, -C(O)-, -C(O)O-, -C(O)NH- and a covalent bond;

Z at each separate occurrence is selected from the group consisting of alkylene, cycloalkylene, alkynylene, arylene, heteroarylene, heterocyclene and a covalent bond;

Y' and Y" at each separate occurrence are selected from the group consisting of -C(O)NR'-, -NR'C(O)-, -NR'C(O)NR'-, -C(=NR')-, -NR'--C(=NR')-, -NR'--C(O)-O-, -P(O)(OR')-O-,  $-S(O)_nCR'R''$ -,  $-S(O)_nNR'$ -, -S-S- and a covalent bond; where n is 0, 1 or 2; and

R' and R" at each separate occurrence are selected from the group consisting of hydrogen, alkyl, substituted alkyl, cycloalkyl, substituted cycloalkyl, alkenyl, substituted alkynyl, aryl, heteroaryl and heterocyclic;

the method comprising the steps of:

- (a) identifying selecting a ligand compound which binds to a the cell membrane transporter;
- (b) providing a plurality of functionalized ligand compounds ligands, each functionalized ligand compound comprising the ligand compound from step (a) having a reactive functional group

Application No. 10/075,017
Attorney Docket No. P-009-RC2
Customer No. 27038
Page 3 of 9

selected from the group consisting of an -NH<sub>2</sub>, -COOH, -C(O)Y, -CHO, -OH, -SH, -N=C=O and -Y group, where Y is halo; wherein the reactive functional group of each functionalized ligand compound is located at a different position relative to the other functionalized ligand compounds ligands;

- (c) providing a <u>the</u> linker compound comprising <u>having</u> two reactive functional groups independently selected from the group consisting of an -NH<sub>2</sub>, -COOH, -C(O)Y, -CHO, -OH, -SH, -N=C=O and -Y group, where Y is halo; wherein each of the reactive function groups of the linker compound has complementary reactivity to the reactive functional group of a <u>the</u> functionalized ligand compound from step (b);
- (d) reacting the linker compound from step (c) with each of the functionalized ligand compounds from step (b) to provide a the library of compounds of the formula L-X-L.
- 65. (Currently Amended) The method of Claim 64, wherein the method further comprises the step of:
- (e) assaying each compound of the library from step (d) to determine its the binding affinity of the compound for the cell membrane transporter.
- 66. (Currently Amended) The method of Claim 64, wherein the linker compound has a chain length between reactive functional groups of from about 2 Å to 100 Å.
- 67. (Previously Presented) The method of Claim 64, wherein the cell membrane transporter is an ion channel.
- 68. (Previously Presented) The method of Claim 67, wherein the cell membrane transporter is a sodium ion channel.
  - 69. (New) The method of Claim 64, wherein Z is alkylene.
- 70. (New) The method of Claim 64, wherein Z is alkylene; Y' and Y" are covalent bonds; and m is 0 or 1.